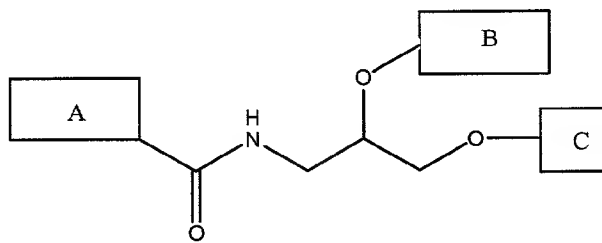


**WE CLAIM:**

1. A support for oligonucleotide synthesis comprising: a support material represented by the following formula:



wherein substituent A is a member selected from the group consisting of H, an alkyl group, an aryl group, a polymeric base material, and a silica base material;

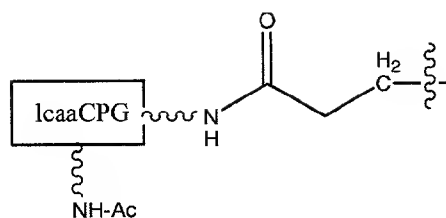
wherein substituent B is a member selected from the group consisting of an acyl group, an aroyl group, a polymeric base material, and a silica base material; and

wherein substituent C is a member selected from the group consisting of a dimethoxytrityl group and a protecting group removable under acidic or neutral conditions;

with the proviso that one of substituent A or B constitutes a polymeric base material or a silica base material.

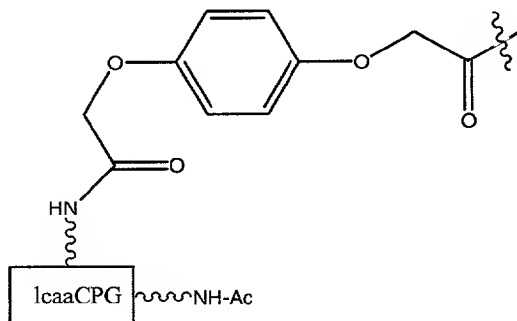
2. A support according to claim 1, wherein substituent A constitutes a long chain alkylamino controlled pore glass base material.

3. A support according to claim 2, wherein substituent A includes the following substituent:



wherein lcaaCPG and its accompanying substituent groups represent the long chain alkylamino controlled pore glass base material.

4. A support according to claim 2, wherein substituent B is an acyl group.
5. A support according to claim 2, wherein substituent B is a 4-chlorophenoxyacetyl group.
6. A support according to claim 2, wherein substituent B is a 2,4-dichlorophenoxyacetyl group.
7. A support according to claim 1, wherein substituent B constitutes a long chain alkylamino controlled pore glass base material.
8. A support according to claim 7, wherein substituent B includes the following substituent:

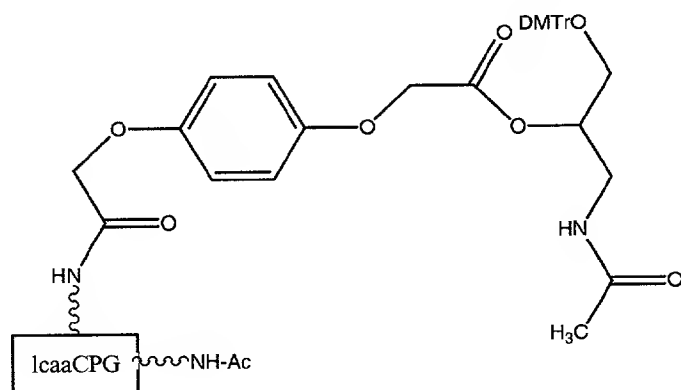


wherein lcaaCPG and its accompanying substituent groups represent the long chain alkylamino controlled pore glass base material.

9. A support according to claim 7, wherein substituent A is hydrogen.

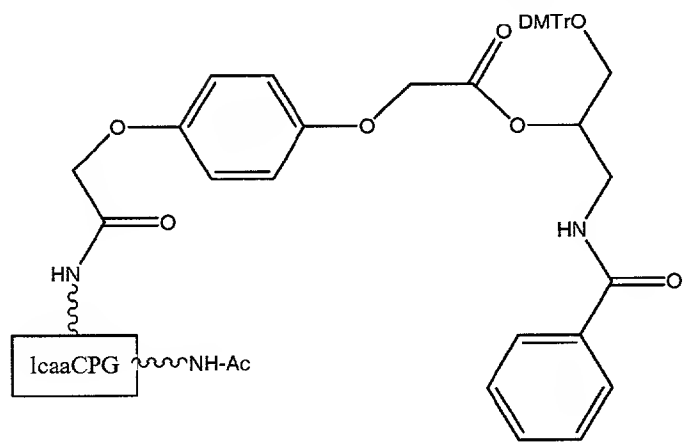
- 

16. A support according to claim 1, wherein the support material is



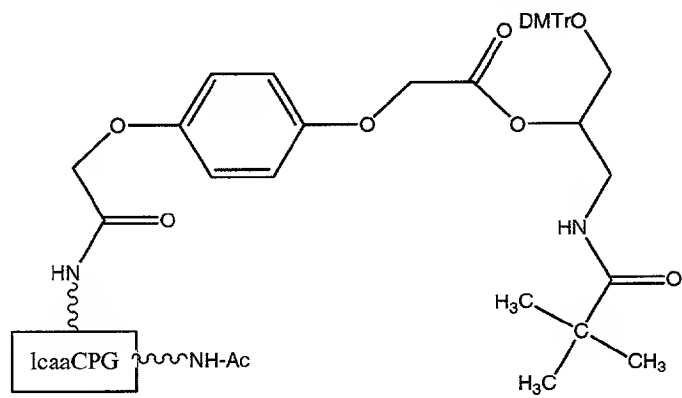
wherein DMTr represents a dimethoxytrityl group and wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

17. A support according to claim 1, wherein the support material is



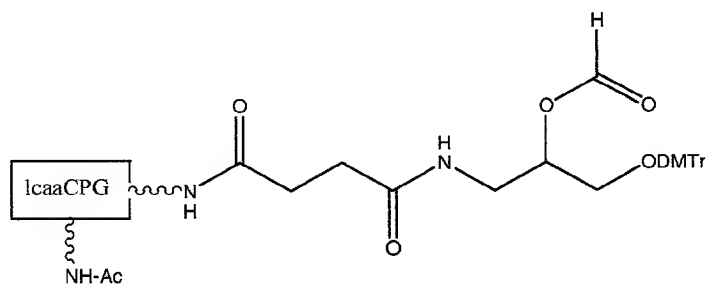
wherein DMTr represents a dimethoxytrityl group and wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

18. A support according to claim 1, wherein the support material is



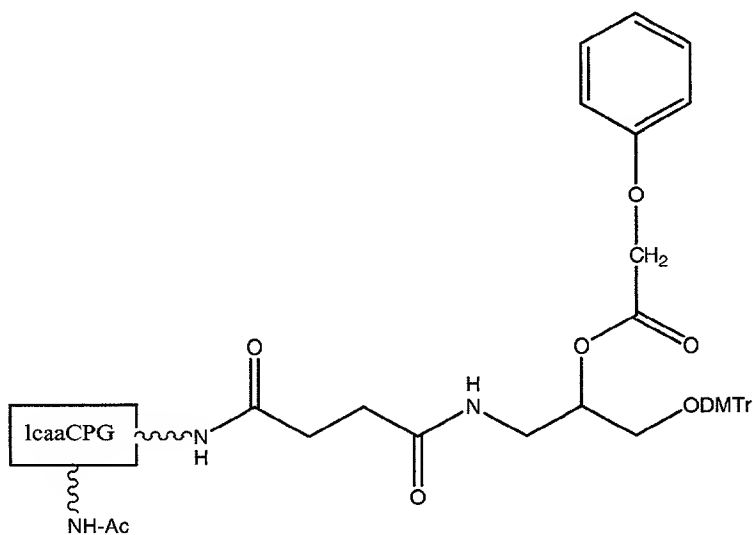
wherein DMTr represents a dimethoxytrityl group and wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

19. A support according to claim 1, wherein the support material is



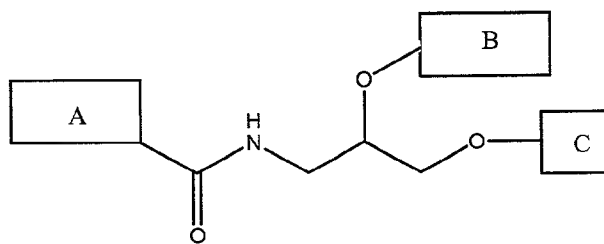
wherein DMTr represents a dimethoxytrityl group and wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

20. A support according to claim 1, wherein the support material is



wherein DMTr represents a dimethoxytrityl group and wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

21. An article represented by the following formula:



wherein substituent A is a member selected from the group consisting of H, an alkyl group, an aryl group, a polymeric base material, and a silica base material;

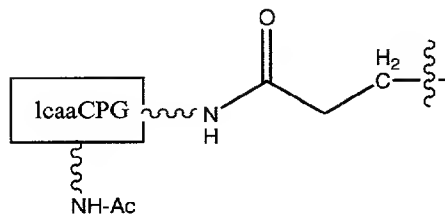
wherein substituent B is a member selected from the group consisting of an acyl group, an aroyl group, a polymeric base material, and a silica base material; and

wherein substituent C is a member selected from the group consisting of a dimethoxytrityl group, a nucleotide-containing group, and a protecting group removable under acidic or neutral conditions;

with the proviso that one of substituent A or B constitutes a polymeric base material or a silica base material.

22. An article according to claim 21, wherein substituent A constitutes a long chain alkylamino controlled pore glass base material.

23. An article according to claim 22, wherein substituent A includes the following substituent:



wherein lcaaCPG and its accompanying substituent groups represent the long chain alkylamino controlled pore glass base material.

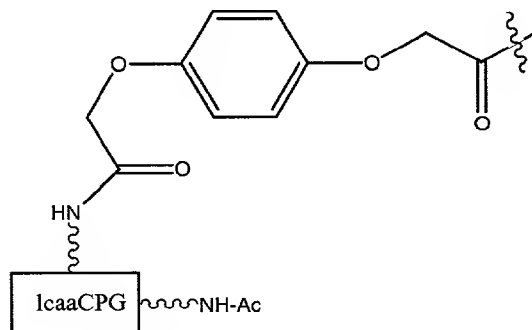
24. An article according to claim 22, wherein substituent B is an acyl group.

25. An article according to claim 22, wherein substituent B is a 4-chlorophenoxyacetyl group.

26. An article according to claim 22, wherein substituent B is a 2,4-dichlorophenoxyacetyl group.

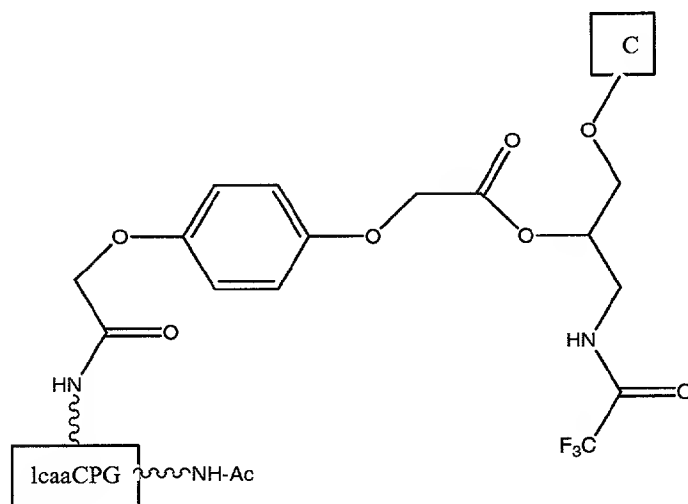
27. An article according to claim 21, wherein substituent B constitutes a long chain alkylamino controlled pore glass base material.

28. An article according to claim 27, wherein substituent B includes the following substituent:



wherein lcaaCPG and its accompanying substituent groups represent the long chain alkylamino controlled pore glass base material.

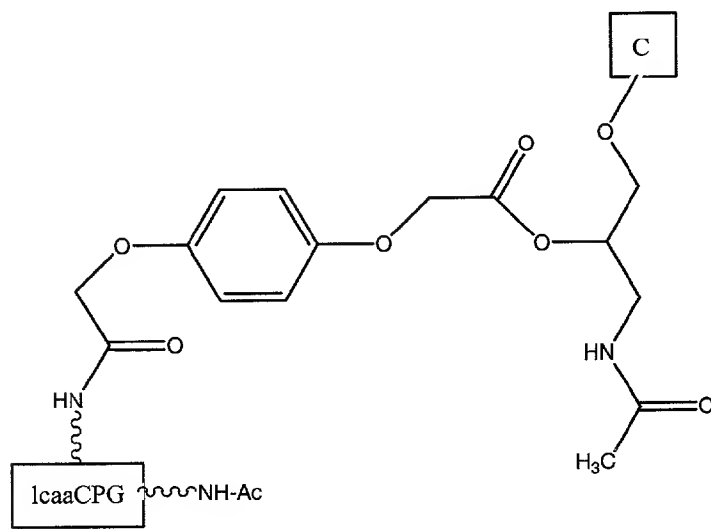
29. An article according to claim 27, wherein substituent A is hydrogen.
30. An article according to claim 27, wherein substituent A is an alkyl group.
31. An article according to claim 27, wherein substituent A is a phenyl group.
32. An article according to claim 27, wherein substituent A is a CF<sub>3</sub> group.
33. An article according to claim 27, wherein substituent A is a methyl group.
34. An article according to claim 27, wherein substituent A is a t-butyl group.
35. An article according to claim 21, represented by the following formula:



wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

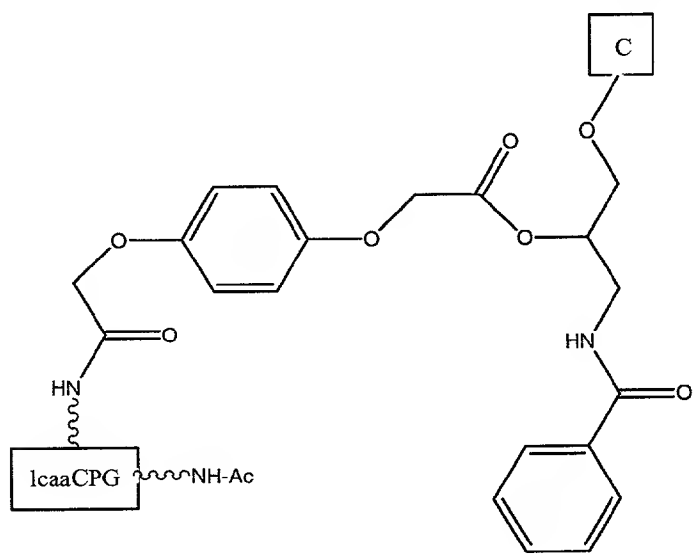


36. An article according to claim 21 represented by the following formula:



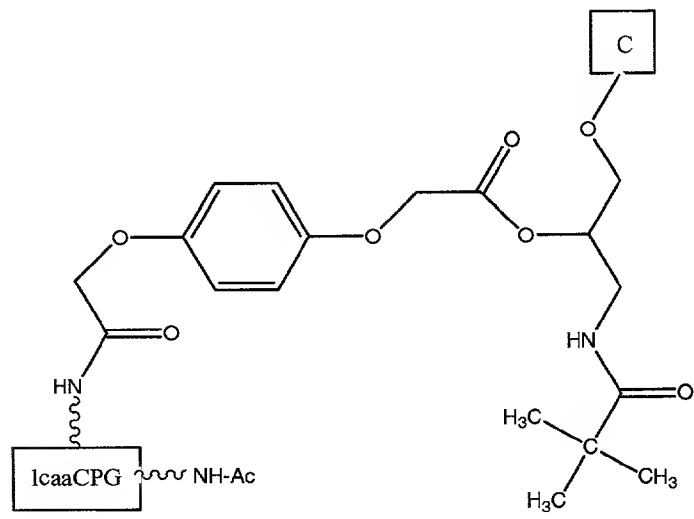
wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

37. An article according to claim 21 represented by the following formula:



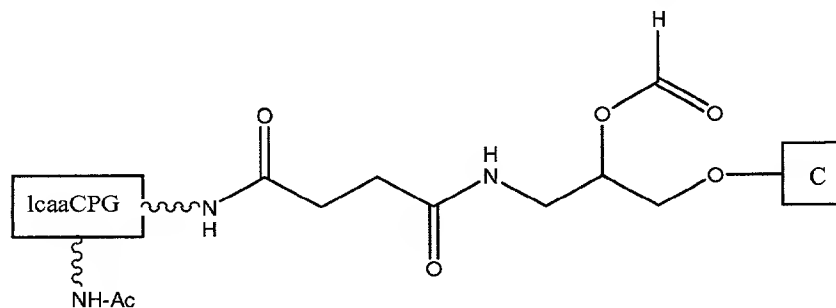
wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

38. An article according to claim 21 represented by the following formula:



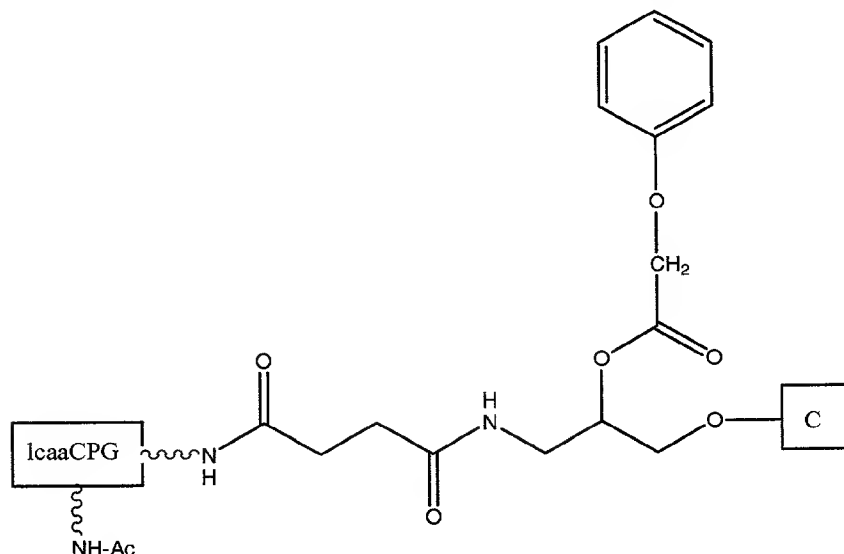
wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

39. An article according to claim 21 represented by the following formula:



wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

40. An article according to claim 21 represented by the following formula:



wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

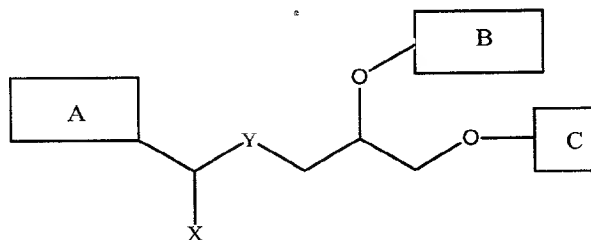
41. An article according to claim 21, wherein substituent C is a nucleotide-containing group including at least one nucleotide selected from the group consisting of: thymidine, 2'-deoxyadenosine, 2'-deoxycytidine, and 2'-deoxyguanosine.

42. An article according to claim 41, wherein the nucleotide-containing group is attached via a phosphotriester group.

43. An article according to claim 21, wherein substituent C is a nucleotide-containing group including a plurality of nucleotides.

44. An article according to claim 21, wherein substituent C is a nucleotide-containing group.

45. An article represented by the following formula:



wherein X is a member selected from the group consisting of =O, S, and NH;

wherein Y is a member selected from the group consisting of O and NH;

wherein substituent A is a member selected from the group consisting of H, an alkyl group, an aryl group, a polymeric base material, a silica base material, a substituent including an activated ester capable of coupling to an amino support, and a substituent terminating in a phosphoramidite group capable of coupling to a support or an oligonucleotide;

wherein substituent B is a first protecting group; and

wherein substituent C is a second protecting group different from the first protecting group,

with the proviso that one of the first protecting group or the second protecting group is a substituent group capable of being removed under neutral conditions and one of the first protecting group or the second protecting group is a substituent group capable of being removed under acidic or specific neutral conditions.

46. An article according to claim 45, wherein substituent B is a member selected from the group consisting of an acyl group and an aroyl group.

47. An article according to claim 45, wherein substituent B is a 4-chlorophenoxyacetyl group.

48. An article according to claim 45, wherein substituent B is a 2,4-dichlorophenoxyacetyl group.

49. An article according to claim 45, wherein substituent C is a dimethoxytrityl group.

50. An article according to claim 45, wherein substituent C is a member selected from the group consisting of an acyl group and an aroyl group.

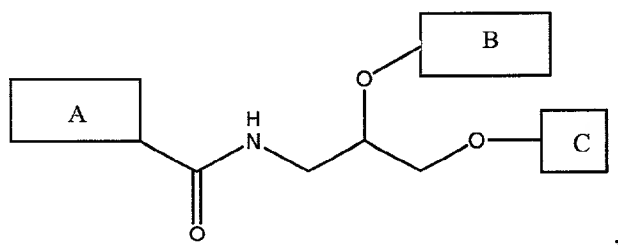
51. An article according to claim 45, wherein substituent C is a 4-chlorophenoxyacetyl group.

52. An article according to claim 45, wherein substituent C is a 2,4-dichlorophenoxyacetyl group.

53. An article according to claim 45, wherein substituent B is a dimethoxytrityl group.

54. A method for releasing a product oligonucleotide from a support, comprising:

treating a supported oligonucleotide with a nonaqueous base, wherein the supported oligonucleotide is represented by the following formula:



wherein substituent A is a member selected from the group consisting of H, an alkyl group, an aryl group, a polymeric support material, and a silica support material, wherein substituent B is a member selected from the group

consisting of an acyl group, an aroyl group, a polymeric support material, and a silica support material, and wherein substituent C is an oligonucleotide-containing group, with the proviso that one of substituent A or B constitutes a polymeric support material or a silica support material, to thereby cleave substituent A or B from the supported oligonucleotide; and

thereafter treating the supported oligonucleotide to separate the product oligonucleotide included as part of substituent C from the support.

55. A method according to claim 54, wherein the nonaqueous base includes ammonia in an alcohol solution.

56. A method according to claim 54, wherein the nonaqueous base includes ammonia in methanol.

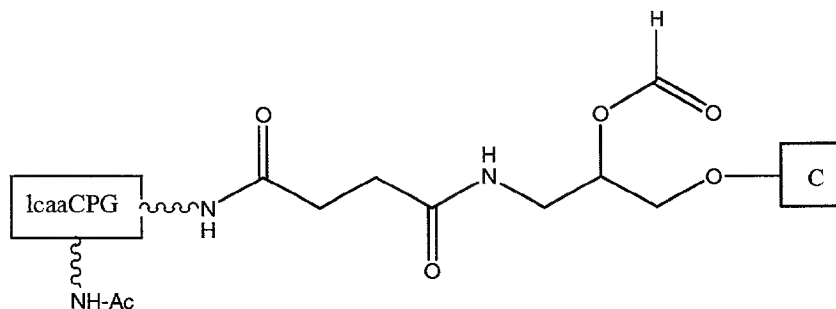
57. A method according to claim 54, wherein substituent A includes a long chain alkylamino controlled pore glass base material.

58. A method according to claim 57, wherein substituent B is an acyl group.

59. A method according to claim 57, wherein substituent B is a 4-chlorophenoxyacetyl group.

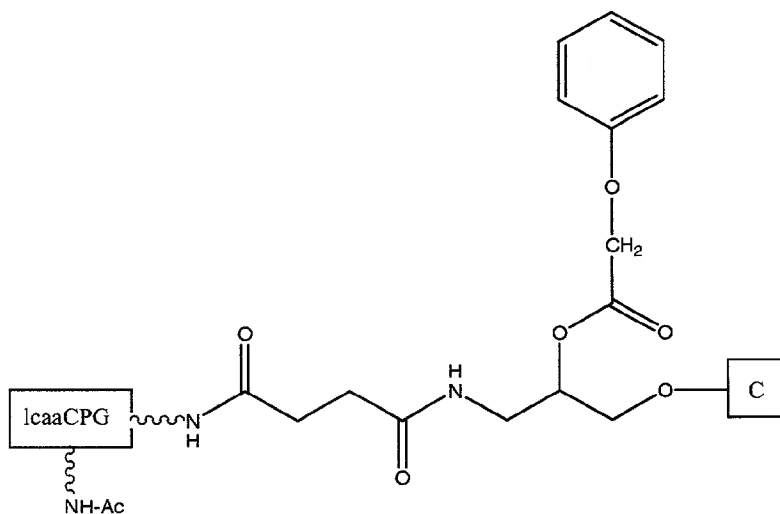
60. A method according to claim 57, wherein substituent B is a 2,4-dichlorophenoxyacetyl group.

61. A method according to claim 54, wherein the supported oligonucleotide is represented by the following formula:



wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

62. A method according to claim 54, wherein the supported oligonucleotide is represented by the following formula:



wherein lcaaCPG and its accompanying substituent groups represent a long chain alkylamino controlled pore glass base material.

63. A method according to claim 54, wherein the oligonucleotide-containing group is attached via a phosphotriester group.